

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Varies

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: N/A

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012  
Date Data Arrived at EDR: 10/04/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 32

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: 04/15/2013  
Data Release Frequency: Quarterly

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/18/2012  
Date Data Arrived at EDR: 01/27/2012  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 34

Source: EPA  
Telephone: 202-564-5962  
Last EDR Contact: 12/28/2012  
Next Scheduled EDR Contact: 04/15/2013  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/18/2012  
Date Data Arrived at EDR: 01/27/2012  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 34

Source: EPA  
Telephone: 202-564-5962  
Last EDR Contact: 12/28/2012  
Next Scheduled EDR Contact: 04/15/2013  
Data Release Frequency: Annually

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/13/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 36

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 11/12/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Quarterly

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/20/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 69

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 11/16/2012  
Next Scheduled EDR Contact: 03/04/2013  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011  
Date Data Arrived at EDR: 05/18/2012  
Date Made Active in Reports: 05/25/2012  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/16/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 11/02/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

### COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 08/04/2009  
Date Made Active in Reports: 08/17/2009  
Number of Days to Update: 13

Source: Department of Environment & Natural Resources  
Telephone: 919-807-6359  
Last EDR Contact: 11/05/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Varies

### COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 10/16/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Varies

### Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/02/2012  
Date Data Arrived at EDR: 10/03/2012  
Date Made Active in Reports: 10/26/2012  
Number of Days to Update: 23

Source: Department of Environmental & Natural Resources  
Telephone: 919-508-8496  
Last EDR Contact: 01/02/2013  
Next Scheduled EDR Contact: 04/15/2013  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010  
Date Data Arrived at EDR: 01/03/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 77

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 12/11/2012  
Next Scheduled EDR Contact: 03/25/2013  
Data Release Frequency: Varies

### Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 09/23/2011  
Date Data Arrived at EDR: 10/06/2011  
Date Made Active in Reports: 11/01/2011  
Number of Days to Update: 26

Source: Department of Environment & Natural Resources  
Telephone: 919-733-1322  
Last EDR Contact: 11/14/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Quarterly

### Financial Assurance 3: Financial Assurance Information

Hazardous waste financial assurance information.

Date of Government Version: 09/30/2012  
Date Data Arrived at EDR: 10/19/2012  
Date Made Active in Reports: 11/29/2012  
Number of Days to Update: 41

Source: Department of Environment & Natural Resources  
Telephone: 919-707-8222  
Last EDR Contact: 12/13/2012  
Next Scheduled EDR Contact: 04/01/2013  
Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012  
Date Data Arrived at EDR: 11/19/2012  
Date Made Active in Reports: 01/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 11/19/2012  
Next Scheduled EDR Contact: 03/04/2013  
Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 08/28/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/16/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2012  
Date Data Arrived at EDR: 11/07/2012  
Date Made Active in Reports: 12/11/2012  
Number of Days to Update: 34

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/07/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/23/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 57

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 06/22/2012  
Date Made Active in Reports: 07/31/2012  
Number of Days to Update: 39

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 11/26/2012  
Next Scheduled EDR Contact: 03/11/2013  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 09/27/2012  
Number of Days to Update: 70

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/13/2012  
Next Scheduled EDR Contact: 04/01/2013  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247  
U.S. Electric Transmission and Power Plants Systems Digital GIS Data



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Child Care Facility List

Source: Department of Health & Human Services

Telephone: 919-662-4499

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Department of Environment & Natural Resources

Telephone: 919-733-2090

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

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## **GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

FLINT TRADING  
4686 TURNPIKE COURT  
THOMASVILLE, NC 27360

### **TARGET PROPERTY COORDINATES**

|                                |                          |
|--------------------------------|--------------------------|
| Latitude (North):              | 35.8866 - 35° 53' 11.76" |
| Longitude (West):              | 80.0443 - 80° 2' 39.48"  |
| Universal Transverse Mercator: | Zone 17                  |
| UTM X (Meters):                | 586261.4                 |
| UTM Y (Meters):                | 3971592.5                |
| Elevation:                     | 964 ft. above sea level  |

### **USGS TOPOGRAPHIC MAP**

|                       |                              |
|-----------------------|------------------------------|
| Target Property Map:  | 35080-H1 HIGH POINT WEST, NC |
| Most Recent Revision: | 1993                         |
| South Map:            | 35080-G1 FAIR GROVE, NC      |
| Most Recent Revision: | 1987                         |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

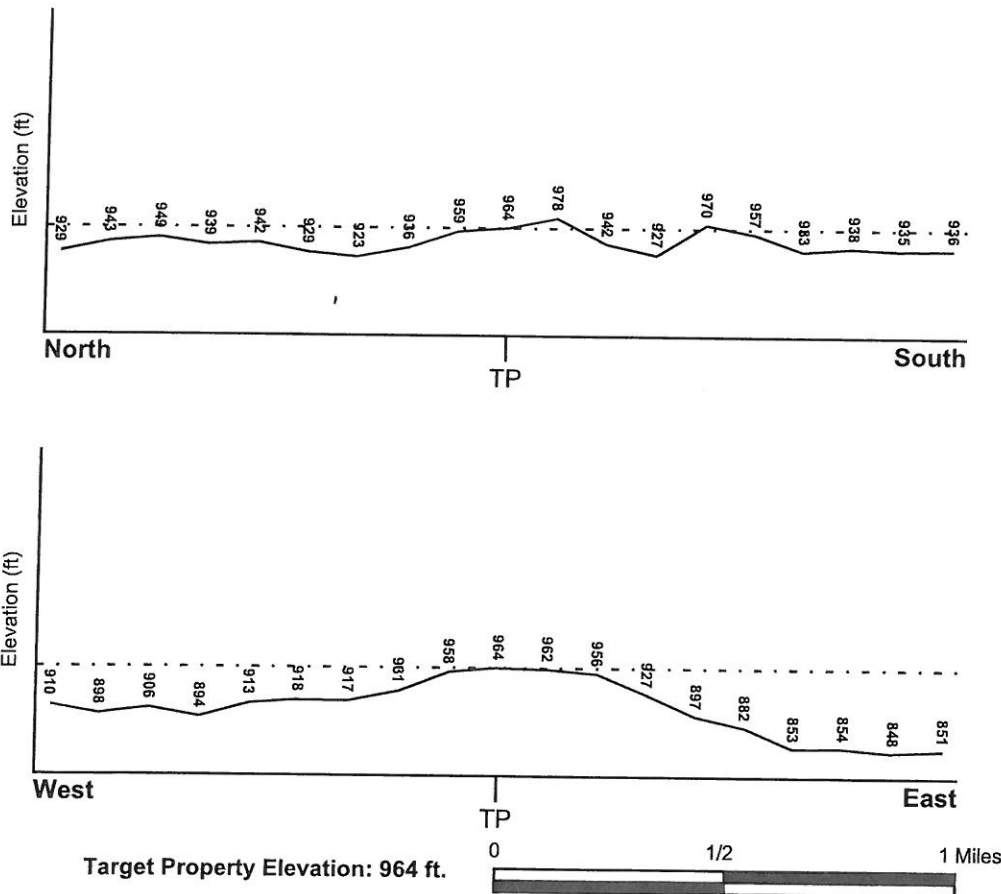
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

Target Property County  
RANDOLPH, NC

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 37151C - FEMA DFIRM Flood data

Additional Panels in search area: 37057C - FEMA DFIRM Flood data

### **NATIONAL WETLAND INVENTORY**

NWI Quad at Target Property  
HIGH POINT WEST

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| <u>MAP ID</u> | <u>LOCATION<br/>FROM TP</u> | <u>GENERAL DIRECTION<br/>GROUNDWATER FLOW</u> |
|---------------|-----------------------------|---|
| Not Reported  |                             |   |

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

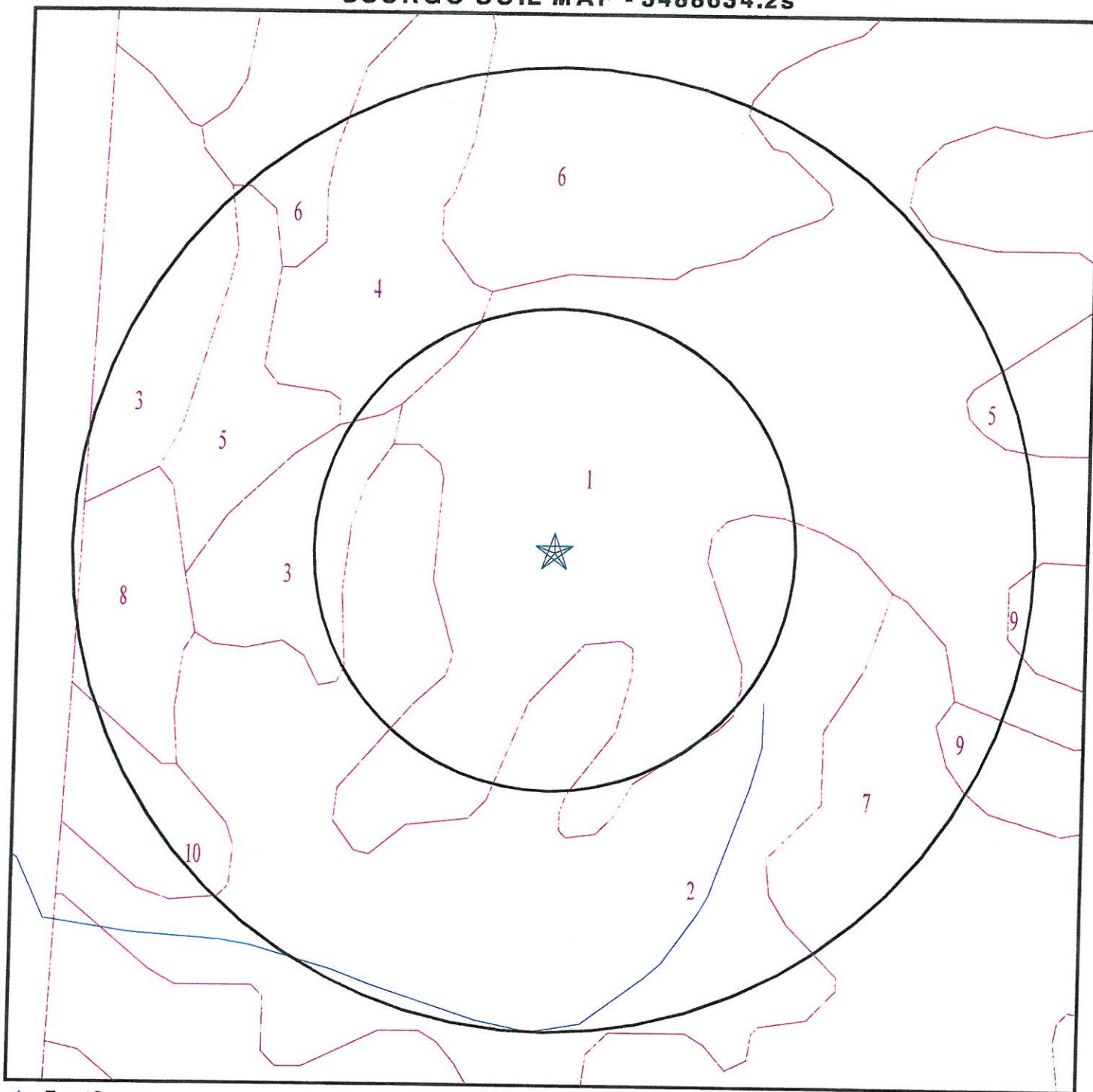
|         |  |
|---------|--|
| Era:    | Paleozoic                                  |
| System: | Cambrian                                   |
| Series: | Cambrian volcanic rocks                    |
| Code:   | Cv (decoded above as Era, System & Series) |

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3488634.2s



★ Target Property  
SSURGO Soil  
Water



SITE NAME: Flint Trading  
ADDRESS: 4686 Turnpike Court  
Thomasville NC 27360  
LAT/LONG: 35.8866 / 80.0443

CLIENT: Pyramid Environmental  
CONTACT: Ryan Kramer  
INQUIRY #: 3488634.2s  
DATE: January 07, 2013 12:23 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Wynott

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information |           |           |                    |                |   |   |                      |
|------------------------|-----------|-----------|--------------------|----------------|---|---|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification |   | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil  |   |                      |
| 1                      | 27 inches | 78 inches | weathered bedrock  | Not reported   | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4                              | Max: 6.5<br>Min: 4.5 |
| 2                      | 0 inches  | 3 inches  | loam               | Not reported   | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4                              | Max: 6.5<br>Min: 4.5 |
| 3                      | 3 inches  | 14 inches | loam               | Not reported   | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4                              | Max: 6.5<br>Min: 4.5 |
| 4                      | 14 inches | 24 inches | clay               | Not reported   | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4                              | Max: 6.5<br>Min: 4.5 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |                |   |  |                      |
|------------------------|-----------|-----------|--------------------|----------------|---|--|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification |   | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil  |  |                      |
| 5                      | 24 inches | 27 inches | sandy clay loam    | Not reported   | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 4<br>Min: 1.4                           | Max: 6.5<br>Min: 4.5 |

### Soil Map ID: 2

Soil Component Name: Helena

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

| Soil Layer Information |           |           |                    |   |   |  |                      |
|------------------------|-----------|-----------|--------------------|---|---|--|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification  |   | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group  | Unified Soil  |  |                      |
| 1                      | 0 inches  | 12 inches | sandy loam         | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 3.5 |
| 2                      | 12 inches | 29 inches | clay               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 3.5 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                     |   |   |  |                      |
|------------------------|-----------|-----------|---------------------|---|---|--|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class  | Classification  |   | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                     | AASHTO Group  | Unified Soil  |  |                      |
| 3                      | 29 inches | 44 inches | fine sandy loam     | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 3.5 |
| 4                      | 44 inches | 78 inches | gravelly sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 3.5 |

### Soil Map ID: 3

Soil Component Name: Mecklenburg

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information |          |          |                    |  |   |  |                      |
|------------------------|----------|----------|--------------------|--|---|--|----------------------|
| Layer                  | Boundary |          | Soil Texture Class | Classification   |   | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper    | Lower    |                    | AASHTO Group   | Unified Soil  |  |                      |
| 1                      | 0 inches | 7 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14<br>Min: 1.4                          | Max: 7.3<br>Min: 5.6 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |  |   |  |                      |
|------------------------|-----------|-----------|--------------------|--|---|--|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification   |   | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil  |  |                      |
| 2                      | 7 inches  | 29 inches | clay               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14<br>Min: 1.4                          | Max: 7.3<br>Min: 5.6 |
| 3                      | 29 inches | 38 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14<br>Min: 1.4                          | Max: 7.3<br>Min: 5.6 |
| 4                      | 38 inches | 59 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14<br>Min: 1.4                          | Max: 7.3<br>Min: 5.6 |

### Soil Map ID: 4

Soil Component Name: Cecil

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |   |              |  |                    |
|------------------------|-----------|-----------|--------------------|---|--------------|--|--------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification  |              | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|                        | Upper     | Lower     |                    | AASHTO Group  | Unified Soil |  |                    |
| 1                      | 0 inches  | 7 inches  | sandy loam         | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 14<br>Min: 4                            | Max: 6 Min: 4.5    |
| 2                      | 7 inches  | 11 inches | sandy clay loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 14<br>Min: 4                            | Max: 6 Min: 4.5    |
| 3                      | 11 inches | 50 inches | clay               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 14<br>Min: 4                            | Max: 6 Min: 4.5    |
| 4                      | 50 inches | 74 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 14<br>Min: 4                            | Max: 6 Min: 4.5    |

## Soil Map ID: 5

Soil Component Name: Wilkes

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                     |   |              |  |                    |
|------------------------|-----------|-----------|---------------------|---|--------------|--|--------------------|
| Layer                  | Boundary  |           | Soil Texture Class  | Classification  |              | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|                        | Upper     | Lower     |                     | AASHTO Group  | Unified Soil |  |                    |
| 1                      | 0 inches  | 5 inches  | loam                | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.07<br>Min: 0                          | Max: Min:          |
| 2                      | 5 inches  | 11 inches | clay loam           | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.07<br>Min: 0                          | Max: Min:          |
| 3                      | 16 inches | 44 inches | weathered bedrock   | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.07<br>Min: 0                          | Max: Min:          |
| 4                      | 11 inches | 16 inches | sandy loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.07<br>Min: 0                          | Max: Min:          |
| 5                      | 44 inches | 59 inches | unweathered bedrock | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.07<br>Min: 0                          | Max: Min:          |

## Soil Map ID: 6

Soil Component Name: Wynott

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |  |              |  |                    |
|------------------------|-----------|-----------|--------------------|--|--------------|--|--------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification   |              | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil |  |                    |
| 1                      | 0 inches  | 3 inches  | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | Not reported | Max: 14<br>Min: 0                            | Max: Min:          |
| 2                      | 3 inches  | 14 inches | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | Not reported | Max: 14<br>Min: 0                            | Max: Min:          |
| 3                      | 14 inches | 24 inches | clay               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | Not reported | Max: 14<br>Min: 0                            | Max: Min:          |
| 4                      | 24 inches | 27 inches | sandy clay loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | Not reported | Max: 14<br>Min: 0                            | Max: Min:          |
| 5                      | 27 inches | 78 inches | weathered bedrock  | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | Not reported | Max: 14<br>Min: 0                            | Max: Min:          |

## Soil Map ID: 7

Soil Component Name: Appling

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                    |   |  |  |                      |
|------------------------|-----------|-----------|--------------------|---|--|--|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification  |  | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group  | Unified Soil   |  |                      |
| 1                      | 0 inches  | 5 inches  | sandy loam         | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 4.5 |
| 2                      | 18 inches | 35 inches | clay               | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 4.5 |
| 3                      | 35 inches | 51 inches | sandy clay loam    | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 4.5 |
| 4                      | 5 inches  | 18 inches | sandy clay loam    | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 4.5 |
| 5                      | 51 inches | 62 inches | sandy loam         | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4                            | Max: 5.5<br>Min: 4.5 |

## Soil Map ID: 8

Soil Component Name: Helena

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

| Soil Layer Information |           |           |                     |   |   |   |                      |
|------------------------|-----------|-----------|---------------------|---|---|---|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class  | Classification  |   | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                     | AASHTO Group  | Unified Soil  |   |                      |
| 1                      | 44 inches | 78 inches | gravelly sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay. | Max: 1.4<br>Min: 0.42                           | Max: 5.5<br>Min: 3.5 |
| 2                      | 29 inches | 44 inches | fine sandy loam     | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay. | Max: 1.4<br>Min: 0.42                           | Max: 5.5<br>Min: 3.5 |
| 3                      | 0 inches  | 12 inches | sandy loam          | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay. | Max: 1.4<br>Min: 0.42                           | Max: 5.5<br>Min: 3.5 |
| 4                      | 12 inches | 29 inches | clay                | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay. | Max: 1.4<br>Min: 0.42                           | Max: 5.5<br>Min: 3.5 |

### Soil Map ID: 9

Soil Component Name: Pacolet

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information |           |           |                    |   |   |   |                    |
|------------------------|-----------|-----------|--------------------|---|---|---|--------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification  |   | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH) |
|                        | Upper     | Lower     |                    | AASHTO Group  | Unified Soil  |   |                    |
| 1                      | 0 inches  | 7 inches  | sandy loam         | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                               | Max: 6 Min: 4.5    |
| 2                      | 7 inches  | 29 inches | clay               | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                               | Max: 6 Min: 4.5    |
| 3                      | 29 inches | 38 inches | sandy clay loam    | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                               | Max: 6 Min: 4.5    |
| 4                      | 38 inches | 59 inches | sandy loam         | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 14<br>Min: 4                               | Max: 6 Min: 4.5    |

Soil Map ID: 10

Soil Component Name: Chewacla

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 38 inches

| Soil Layer Information |           |           |                    |  |  |   |                      |
|------------------------|-----------|-----------|--------------------|--|--|---|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class | Classification   |  | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                    | AASHTO Group   | Unified Soil   |   |                      |
| 1                      | 0 inches  | 5 inches  | loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 14                             | Max: 6.5<br>Min: 3.6 |
| 2                      | 5 inches  | 14 inches | silty clay loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 14                             | Max: 6.5<br>Min: 3.6 |
| 3                      | 14 inches | 22 inches | sandy clay loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 14                             | Max: 6.5<br>Min: 3.6 |
| 4                      | 22 inches | 50 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 14                             | Max: 6.5<br>Min: 3.6 |
| 5                      | 50 inches | 59 inches | loamy fine sand    | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 14                             | Max: 6.5<br>Min: 3.6 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

| <u>DATABASE</u>  | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS     | 1.000                          |
| Federal FRDS PWS | Nearest PWS within 1 mile      |
| State Database   | 1.000                          |

### FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u>  | <u>WELL ID</u> | <u>LOCATION<br/>FROM TP</u> |
|----------------|----------------|-----------------------------|
| No Wells Found |                |                             |

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u>       | <u>WELL ID</u> | <u>LOCATION<br/>FROM TP</u> |
|---------------------|----------------|-----------------------------|
| No PWS System Found |                |                             |

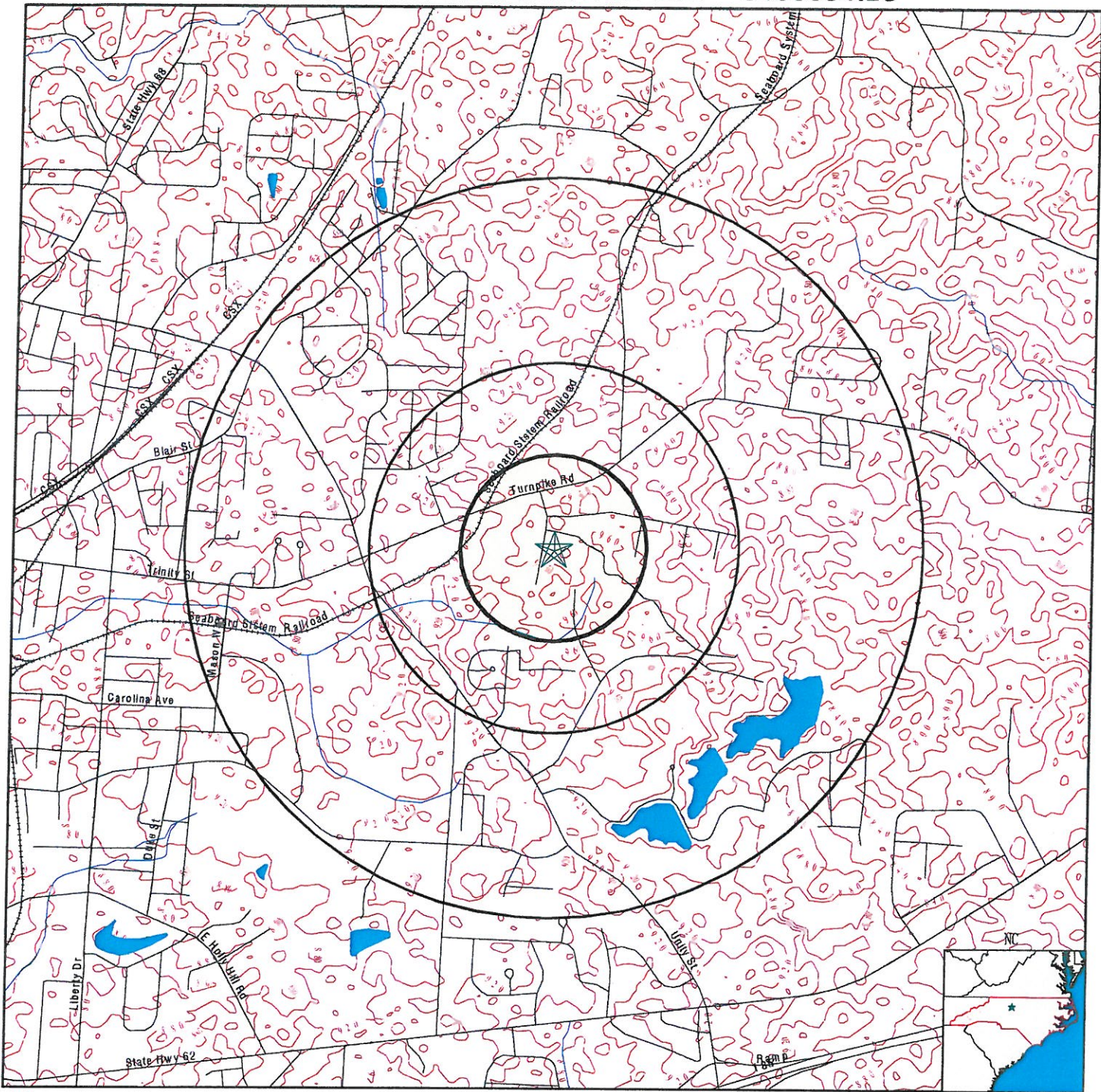
Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

| <u>MAP ID</u>  | <u>WELL ID</u> | <u>LOCATION<br/>FROM TP</u> |
|----------------|----------------|-----------------------------|
| No Wells Found |                |                             |



# PHYSICAL SETTING SOURCE MAP - 3488634.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species



SITE NAME: Flint Trading  
 ADDRESS: 4686 Turnpike Court  
 Thomasville NC 27360  
 LAT/LONG: 35.8866 / 80.0443

CLIENT: Pyramid Environmental  
 CONTACT: Ryan Kramer  
 INQUIRY #: 3488634.2s  
 DATE: January 07, 2013 12:23 pm



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: NC Radon

### Radon Test Results

| Num Results | Avg pCi/L | Min pCi/L | Max pCi/L |
|-------------|-----------|-----------|-----------|
| 5           | 1.48      | 1         | 1.8       |
| 1           | 2.20      | 2.2       | 2.2       |

Federal EPA Radon Zone for RANDOLPH County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for Zip Code: 27360

Number of sites tested: 4

| Area                    | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|------------|--------------|-------------|
| Living Area - 1st Floor | 0.600 pCi/L      | 100%       | 0%           | 0%          |
| Living Area - 2nd Floor | 0.000 pCi/L      | 100%       | 0%           | 0%          |
| Basement                | 0.100 pCi/L      | 100%       | 0%           | 0%          |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Department of Environment & Natural Resources

Telephone: 919-733-2090

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### North Carolina Public Water Supply Wells

Source: Department of Environmental Health

Telephone: 919-715-3243

## OTHER STATE DATABASE INFORMATION

#### NC Natural Areas: Significant Natural Heritage Areas

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A polygon coverage identifying sites (terrestrial or aquatic) that have particular biodiversity significance.

A site's significance may be due to the presence of rare species, rare or high quality natural communities, or other important ecological features.

#### NC Game Lands: Wildlife Resources Commission Game Lands

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

#### NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

### RADON

#### State Database: NC Radon

Source: Department of Environment & Natural Resources

Telephone: 919-733-4984

Radon Statistical and Non Statistical Data

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

### STREET AND ADDRESS INFORMATION

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## **APPENDIX H**

### **Site Photographs**



Photo 1. South end of the Subject Property – Loading dock area.



Photo 2. View of the property facing south toward the detached shed in background.



Photo 3. Inside the shed where wooden debris was located.



Photo 4. View of the empty 500-gallon Kerosene AST west of the warehouse.



Photo 5. View of northern portion of building.



Photo 6. Septic Tank location in front of the property on Turnpike Court.



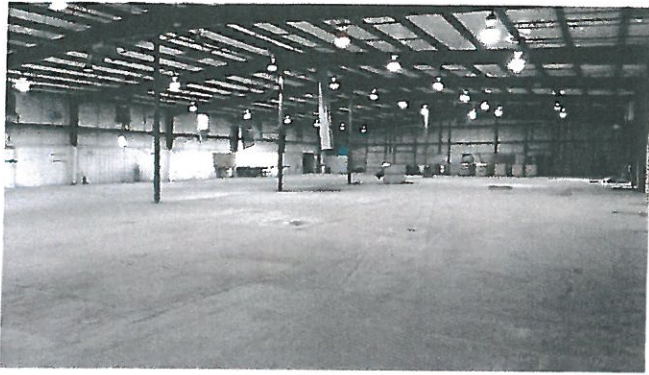


Photo 7. Typical view of the interior of warehouse facing south.



Photo 8. Storage containers near the southern end of the warehouse.



Photo 9. Smaller storage containers that were packaged up for disposal by A&D.



Photo 10. Sand-Blasting area near the southeastern corner of warehouse.



Photo 11. View of the office area near the northern end of warehouse.



Photo 12. Typical office space.



## **APPENDIX I**

### **A&D - Customer Waste Inventory & Laboratory Results**

|                   |               |
|-------------------|---------------|
| Customer Contact: | April Cassidy |
|-------------------|---------------|

65 containers



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Pace Analytical Services, Inc.  
9800 Kinney Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

January 16, 2013

Mr. Mike McCormick  
A&D Environmental  
3149 Lear Drive  
PO Box 484  
Burlington, NC 27217

RE: Project: Gates Property 67386  
Pace Project No.: 92143608

Dear Mr. McCormick:

Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angela M. Baioni*

Angela Baioni

angela.baioni@pacelabs.com  
Project Manager

Enclosures



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## CERTIFICATIONS

Project: Gates Property 67386  
Pace Project No.: 92143608

### Charlotte Certification IDs

9800 Kinney Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

### Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
Massachusetts Certification #: M-NC030  
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40  
South Carolina Certification #: 99030001  
West Virginia Certification #: 356  
Virginia/VELAP Certification #: 460222

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### SAMPLE ANALYTE COUNT

Project: Gates Property 67386  
Pace Project No.: 92143608

| Lab ID      | Sample ID | Method        | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|---------------|----------|-------------------|------------|
| 92143608001 | DMCOMP    | EPA 6010      | JMW      | 7                 | PASI-A     |
|             |           | EPA 7470      | DMB      | 1                 | PASI-A     |
|             |           | EPA 8260      | CAH      | 72                | PASI-C     |
|             |           | EPA 1010      | LMD      | 1                 | PASI-A     |
|             |           | EPA 9040      | KCS      | 1                 | PASI-A     |
|             |           | SM 4500-CN-E  | JDA      | 1                 | PASI-A     |
| 92143608002 | DM36-38   | EPA 1010      | LMD      | 1                 | PASI-A     |
|             |           | ASTM D5468-02 | SDH      | 1                 | PASI-A     |
| 92143608003 | DM313234  | EPA 6010      | JMW      | 7                 | PASI-A     |
|             |           | EPA 7470      | SH1      | 1                 | PASI-A     |
|             |           | EPA 9045      | EWS      | 1                 | PASI-A     |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Gates Property 67386  
Pace Project No.: 92143608

Sample: DMCOMP Lab ID: 92143608001 Collected: 01/02/13 09:30 Received: 01/03/13 14:18 Matrix: Water

| Parameters   | Results   | Units | Report Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|--|-----------|-------|--------------|----|----------------|----------------|-----------|------|
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3010 |           |       |              |    |                |                |           |      |
| Arsenic  | 25.5 ug/L |       | 10.0         | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7440-38-2 |      |
| Barium   | 441 ug/L  |       | 5.0          | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7440-39-3 |      |
| Cadmium  | 1.4 ug/L  |       | 1.0          | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7440-43-9 |      |
| Chromium   | 5.0 ug/L  |       | 5.0          | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7440-47-3 |      |
| Lead   | 47.5 ug/L |       | 5.0          | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7439-92-1 |      |
| Selenium   | ND ug/L   |       | 10.0         | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7782-49-2 |      |
| Silver   | ND ug/L   |       | 5.0          | 1  | 01/12/13 12:40 | 01/14/13 20:16 | 7440-22-4 |      |

|  |         |  |      |   |                |                |           |  |
|--|---------|--|------|---|----------------|----------------|-----------|--|
| <b>7470 Mercury</b> Analytical Method: EPA 7470 Preparation Method: EPA 7470 |         |  |      |   |                |                |           |  |
| Mercury  | ND ug/L |  | 0.20 | 1 | 01/11/13 18:30 | 01/12/13 12:14 | 7439-97-6 |  |

|   |             |  |       |      |  |                |          |    |
|---|-------------|--|-------|------|--|----------------|----------|----|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |             |  |       |      |  |                |          |    |
| Acetone                                     | 1590 ug/L   |  | 125   | 5    |  | 01/04/13 22:22 | 67-64-1  | pH |
| Benzene                                     | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 71-43-2  |    |
| Bromobenzene                                | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 108-86-1 |    |
| Bromochloromethane                          | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 74-97-5  |    |
| Bromodichloromethane                        | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 75-27-4  |    |
| Bromoform                                   | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 75-25-2  |    |
| Bromomethane                                | ND ug/L     |  | 50.0  | 5    |  | 01/04/13 22:22 | 74-83-9  |    |
| 2-Butanone (MEK)                            | 220000 ug/L |  | 10000 | 1000 |  | 01/08/13 14:46 | 78-93-3  |    |
| tert-Butyl Alcohol                          | ND ug/L     |  | 500   | 5    |  | 01/04/13 22:22 | 75-65-0  |    |
| n-Butylbenzene                              | 35.7 ug/L   |  | 25.0  | 5    |  | 01/04/13 22:22 | 104-51-8 |    |
| sec-Butylbenzene                            | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 135-98-8 |    |
| tert-Butylbenzene                           | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 98-06-6  |    |
| Carbon tetrachloride                        | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 56-23-5  |    |
| Chlorobenzene                               | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 108-90-7 |    |
| Chloroethane                                | ND ug/L     |  | 50.0  | 5    |  | 01/04/13 22:22 | 75-00-3  |    |
| Chloroform                                  | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 67-66-3  |    |
| Chloromethane                               | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 74-87-3  |    |
| 2-Chlorotoluene                             | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 95-49-8  |    |
| 4-Chlorotoluene                             | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 106-43-4 |    |
| 1,2-Dibromo-3-chloropropane                 | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 96-12-8  |    |
| Dibromochloromethane                        | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 124-48-1 |    |
| 1,2-Dibromoethane (EDB)                     | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 106-93-4 |    |
| Dibromomethane                              | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 74-95-3  |    |
| 1,2-Dichlorobenzene                         | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 95-50-1  |    |
| 1,3-Dichlorobenzene                         | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 541-73-1 |    |
| 1,4-Dichlorobenzene                         | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 106-46-7 |    |
| Dichlorodifluoromethane                     | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 75-71-8  |    |
| 1,1-Dichloroethane                          | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 75-34-3  |    |
| 1,2-Dichloroethane                          | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 107-06-2 |    |
| 1,2-Dichloroethene (Total)                  | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 540-59-0 |    |
| 1,1-Dichloroethene                          | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 75-35-4  |    |
| cis-1,2-Dichloroethene                      | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 156-59-2 |    |
| trans-1,2-Dichloroethene                    | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 156-60-5 |    |
| 1,2-Dichloropropane                         | ND ug/L     |  | 25.0  | 5    |  | 01/04/13 22:22 | 78-87-5  |    |

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## ANALYTICAL RESULTS

Project: Gates Property 67386

Pace Project No.: 92143608

Sample: DMCOMP Lab ID: 92143608001 Collected: 01/02/13 09:30 Received: 01/03/13 14:18 Matrix: Water

| Parameters   | Results | Units      | Report Limit | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                    |         |            |              |    |          |                |             |      |
| 1,3-Dichloropropane  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 142-28-9    |      |
| 2,2-Dichloropropane  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 594-20-7    |      |
| 1,1-Dichloropropene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 563-58-6    |      |
| cis-1,3-Dichloropropene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 10061-01-5  |      |
| trans-1,3-Dichloropropene                                      | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 10061-02-6  |      |
| Diisopropyl ether  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 108-20-3    |      |
| Ethylbenzene   | 929     | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 100-41-4    |      |
| Hexachloro-1,3-butadiene                                       | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 87-68-3     |      |
| 2-Hexanone   | ND      | ug/L       | 50.0         | 5  |          | 01/04/13 22:22 | 591-78-6    |      |
| Isopropylbenzene (Cumene)                                      | 28.4    | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 98-82-8     |      |
| p-Isopropyltoluene   | 68.3    | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 99-87-6     |      |
| Methylene Chloride   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 75-09-2     |      |
| 4-Methyl-2-pentanone (MIBK)                                    | 832     | ug/L       | 50.0         | 5  |          | 01/04/13 22:22 | 108-10-1    |      |
| Methyl-tert-butyl ether  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 1634-04-4   |      |
| Naphthalene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 91-20-3     |      |
| n-Propylbenzene  | 45.6    | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 103-65-1    |      |
| Styrene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                      | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                      | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 79-34-5     |      |
| Tetrachloroethene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 127-18-4    |      |
| Toluene  | 1700    | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 108-88-3    | E    |
| 1,2,3-Trichlorobenzene   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 120-82-1    |      |
| 1,1,1-Trichloroethane  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 71-55-6     |      |
| 1,1,2-Trichloroethane  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 79-00-5     |      |
| Trichloroethene  | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 79-01-6     |      |
| Trichlorofluoromethane   | ND      | ug/L       | 50.0         | 5  |          | 01/04/13 22:22 | 75-69-4     |      |
| 1,2,3-Trichloropropane   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene   | 156     | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 108-67-8    |      |
| Vinyl acetate  | ND      | ug/L       | 50.0         | 5  |          | 01/04/13 22:22 | 108-05-4    |      |
| Vinyl chloride   | ND      | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 75-01-4     |      |
| m&p-Xylene   | 2470    | ug/L       | 50.0         | 5  |          | 01/04/13 22:22 | 179601-23-1 | E    |
| o-Xylene   | 651     | ug/L       | 25.0         | 5  |          | 01/04/13 22:22 | 95-47-6     |      |
| <b>Surrogates</b>  |         |            |              |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                       | 110     | %          | 70-130       | 5  |          | 01/04/13 22:22 | 460-00-4    |      |
| Dibromofluoromethane (S)                                       | 94      | %          | 70-130       | 5  |          | 01/04/13 22:22 | 1868-53-7   |      |
| 1,2-Dichloroethane-d4 (S)                                      | 103     | %          | 70-130       | 5  |          | 01/04/13 22:22 | 17060-07-0  |      |
| Toluene-d8 (S)   | 97      | %          | 70-130       | 5  |          | 01/04/13 22:22 | 2037-26-5   |      |
| <b>1010 Flashpoint, Closed Cup</b> Analytical Method: EPA 1010 |         |            |              |    |          |                |             |      |
| Flashpoint   | >200    | deg F      | 70.0         | 1  |          | 01/08/13 17:00 |             |      |
| <b>9040 pH</b> Analytical Method: EPA 9040                     |         |            |              |    |          |                |             |      |
| pH   | 5.9     | Std. Units | 0.10         | 1  |          | 01/15/13 06:31 |             | H6   |

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## ANALYTICAL RESULTS

Project: Gates Property 67386  
Pace Project No.: 92143608

|                        |            |                                 |                           |                          |               |                |         |      |
|------------------------|------------|---------------------------------|---------------------------|--------------------------|---------------|----------------|---------|------|
| Sample: DMCOMP         |            | Lab ID: 92143608001             | Collected: 01/02/13 09:30 | Received: 01/03/13 14:18 | Matrix: Water |                |         |      |
| Parameters             | Results    | Units                           | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No. | Qual |
| 4500CNE Cyanide, Total |            | Analytical Method: SM 4500-CN-E |                           |                          |               |                |         |      |
| Cyanide                | 0.017 mg/L |                                 | 0.0050                    | 1                        |               | 01/12/13 12:28 | 57-12-5 |      |

|                             |             |                                  |                           |                          |               |                |         |      |
|-----------------------------|-------------|----------------------------------|---------------------------|--------------------------|---------------|----------------|---------|------|
| Sample: DM36-38             |             | Lab ID: 92143608002              | Collected: 01/02/13 10:15 | Received: 01/03/13 14:18 | Matrix: Water |                |         |      |
| Parameters                  | Results     | Units                            | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No. | Qual |
| 1010 Flashpoint, Closed Cup |             | Analytical Method: EPA 1010      |                           |                          |               |                |         |      |
| Flashpoint                  | >200 deg F  |                                  | 70.0                      | 1                        |               | 01/08/13 17:00 |         |      |
| ASTM D5468-02 BTU           |             | Analytical Method: ASTM D5468-02 |                           |                          |               |                |         |      |
| British Thermal Units       | 2130 BTU/lb |                                  | 50.0                      | 1                        |               | 01/15/13 17:00 |         | N2   |

| Sample: DM313234                         |                | Lab ID: 92143608003                                      | Collected: 01/02/13 13:00 | Received: 01/03/13 14:18 | Matrix: Solid  |                |           |      |
|--|----------------|--|---------------------------|--------------------------|----------------|----------------|-----------|------|
| Results reported on a "wet-weight" basis |                |  |                           |                          |                |                |           |      |
| Parameters                               | Results        | Units  | Report Limit              | DF                       | Prepared       | Analyzed       | CAS No.   | Qual |
| 6010 MET ICP, TCLP                       |                | Analytical Method: EPA 6010 Preparation Method: EPA 3010 |                           |                          |                |                |           |      |
|  |                | Leachate Method/Date: EPA 1311; 01/04/13 20:00           |                           |                          |                |                |           |      |
| Arsenic                                  | ND mg/L        |  | 0.050                     | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7440-38-2 |      |
| Barium                                   | 2.3 mg/L       |  | 0.25                      | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7440-39-3 |      |
| Cadmium                                  | ND mg/L        |  | 0.0050                    | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7440-43-9 |      |
| Chromium                                 | ND mg/L        |  | 0.025                     | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7440-47-3 |      |
| Lead                                     | ND mg/L        |  | 0.025                     | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7439-92-1 |      |
| Selenium                                 | ND mg/L        |  | 0.10                      | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7782-49-2 |      |
| Silver                                   | ND mg/L        |  | 0.025                     | 1                        | 01/07/13 19:50 | 01/08/13 18:10 | 7440-22-4 |      |
| 7470 Mercury, TCLP                       |                | Analytical Method: EPA 7470 Preparation Method: EPA 7470 |                           |                          |                |                |           |      |
|  |                | Leachate Method/Date: EPA 1311; 01/04/13 20:00           |                           |                          |                |                |           |      |
| Mercury                                  | ND ug/L        |  | 0.20                      | 1                        | 01/09/13 13:20 | 01/10/13 11:21 | 7439-97-6 |      |
| 9045 pH Soil                             |                | Analytical Method: EPA 9045                              |                           |                          |                |                |           |      |
| pH at 25 Degrees C                       | 7.4 Std. Units |  | 0.10                      | 1                        |                | 01/10/13 10:30 |           |      |

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## QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: MERP/4809  
QC Batch Method: EPA 7470  
Associated Lab Samples: 92143608003

Analysis Method: EPA 7470  
Analysis Description: 7470 Mercury TCLP

METHOD BLANK: 902144

Matrix: Water

Associated Lab Samples: 92143608003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury   | ug/L  | ND           | 0.20            | 01/10/13 10:47 |            |

LABORATORY CONTROL SAMPLE: 902145

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury   | ug/L  | 2.5         | 2.5        | 100       | 80-120       |            |

MATRIX SPIKE SAMPLE: 902146

| Parameter | Units | 92143297001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Mercury   | ug/L  | ND                 | 2.5         | 2.4       | 97       | 75-125       |            |

SAMPLE DUPLICATE: 902147

| Parameter | Units | 92143533001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Mercury   | ug/L  | ND                 | ND         |     |            |



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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

|                                     |                                    |
|-------------------------------------|------------------------------------|
| QC Batch: MERP/4822                 | Analysis Method: EPA 7470          |
| QC Batch Method: EPA 7470           | Analysis Description: 7470 Mercury |
| Associated Lab Samples: 92143608001 |                                    |

|                                     |               |
|-------------------------------------|---------------|
| METHOD BLANK: 903832                | Matrix: Water |
| Associated Lab Samples: 92143608001 |               |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury   | ug/L  | ND           | 0.20            | 01/12/13 12:01 |            |

| LABORATORY CONTROL SAMPLE: 903833 |       |             |            |           |              |            |
|-----------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter                         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Mercury                           | ug/L  | 2.5         | 2.4        | 98        | 80-120       |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 903834 903835 |       |                    |                |                 |           |            |          |           |              |     |      |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Parameter  | Units | 92143416002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
| Mercury  | ug/L  | ND                 | 2.5            | 2.5             | 2.4       | 2.3        | 95       | 93        | 75-125       | 2   |      |



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## QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: MPRP/12329      Analysis Method: EPA 6010  
QC Batch Method: EPA 3010      Analysis Description: 6010 MET TCLP  
Associated Lab Samples: 92143608003

METHOD BLANK: 901150      Matrix: Water  
Associated Lab Samples: 92143608003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic   | mg/L  | ND           | 0.050           | 01/08/13 17:25 |            |
| Barium    | mg/L  | ND           | 0.25            | 01/08/13 17:25 |            |
| Cadmium   | mg/L  | ND           | 0.0050          | 01/08/13 17:25 |            |
| Chromium  | mg/L  | ND           | 0.025           | 01/08/13 17:25 |            |
| Lead      | mg/L  | ND           | 0.025           | 01/08/13 17:25 |            |
| Selenium  | mg/L  | ND           | 0.10            | 01/08/13 17:25 |            |
| Silver    | mg/L  | ND           | 0.025           | 01/08/13 17:25 |            |

LABORATORY CONTROL SAMPLE: 901151

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | mg/L  | 2.5         | 2.5        | 99        | 80-120       |            |
| Barium    | mg/L  | 2.5         | 2.5        | 100       | 80-120       |            |
| Cadmium   | mg/L  | 2.5         | 2.4        | 96        | 80-120       |            |
| Chromium  | mg/L  | 2.5         | 2.5        | 98        | 80-120       |            |
| Lead      | mg/L  | 2.5         | 2.3        | 92        | 80-120       |            |
| Selenium  | mg/L  | 2.5         | 2.4        | 97        | 80-120       |            |
| Silver    | mg/L  | 1.2         | 1.2        | 97        | 80-120       |            |

MATRIX SPIKE SAMPLE: 901152

| Parameter | Units | 92143297001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Arsenic   | mg/L  | ND                 | 2.5         | 2.6       | 105      | 75-125       |            |
| Barium    | mg/L  | 0.27               | 2.5         | 2.8       | 103      | 75-125       |            |
| Cadmium   | mg/L  | ND                 | 2.5         | 2.6       | 103      | 75-125       |            |
| Chromium  | mg/L  | 0.091              | 2.5         | 2.8       | 107      | 75-125       |            |
| Lead      | mg/L  | ND                 | 2.5         | 2.4       | 97       | 75-125       |            |
| Selenium  | mg/L  | ND                 | 2.5         | 2.6       | 103      | 75-125       |            |
| Silver    | mg/L  | ND                 | 1.2         | 1.3       | 104      | 75-125       |            |

SAMPLE DUPLICATE: 901153

| Parameter | Units | 92143533001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Arsenic   | mg/L  | ND                 | ND         |     |            |
| Barium    | mg/L  | 704 ug/L           | 0.69       | 2   |            |
| Cadmium   | mg/L  | ND                 | ND         |     |            |
| Chromium  | mg/L  | 28.9 ug/L          | 0.028      | 2   |            |
| Lead      | mg/L  | 39.7 ug/L          | 0.046      | 14  |            |

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### QUALITY CONTROL DATA

Project: Gates Property 67386

Pace Project No.: 92143608

SAMPLE DUPLICATE: 901153

| Parameter | Units | 92143533001<br>Result | Dup<br>Result | RPD | Qualifiers |
|-----------|-------|-----------------------|---------------|-----|------------|
| Selenium  | mg/L  | ND                    | ND            |     |            |
| Silver    | mg/L  | ND                    | ND            |     |            |



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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: MPRP/12378  
QC Batch Method: EPA 3010  
Associated Lab Samples: 92143608001

Analysis Method: EPA 6010  
Analysis Description: 6010 MET

METHOD BLANK: 904671

Matrix: Water

Associated Lab Samples: 92143608001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic   | ug/L  | ND           | 10.0            | 01/14/13 20:09 |            |
| Barium    | ug/L  | ND           | 5.0             | 01/14/13 20:09 |            |
| Cadmium   | ug/L  | ND           | 1.0             | 01/14/13 20:09 |            |
| Chromium  | ug/L  | ND           | 5.0             | 01/14/13 20:09 |            |
| Lead      | ug/L  | ND           | 5.0             | 01/14/13 20:09 |            |
| Selenium  | ug/L  | ND           | 10.0            | 01/14/13 20:09 |            |
| Silver    | ug/L  | ND           | 5.0             | 01/14/13 20:09 |            |

LABORATORY CONTROL SAMPLE: 904672

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic   | ug/L  | 500         | 447        | 89        | 80-120       |            |
| Barium    | ug/L  | 500         | 453        | 91        | 80-120       |            |
| Cadmium   | ug/L  | 500         | 460        | 92        | 80-120       |            |
| Chromium  | ug/L  | 500         | 465        | 93        | 80-120       |            |
| Lead      | ug/L  | 500         | 453        | 91        | 80-120       |            |
| Selenium  | ug/L  | 500         | 450        | 90        | 80-120       |            |
| Silver    | ug/L  | 250         | 235        | 94        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 904673

904674

| Parameter | Units | 92143608001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|------|
| Arsenic   | ug/L  | 25.5               | 500            | 500             | 557       | 568        | 106      | 108       | 75-125       | 2   |      |
| Barium    | ug/L  | 441                | 500            | 500             | 864       | 866        | 85       | 85        | 75-125       | 0   |      |
| Cadmium   | ug/L  | 1.4                | 500            | 500             | 436       | 443        | 87       | 88        | 75-125       | 2   |      |
| Chromium  | ug/L  | 5.0                | 500            | 500             | 473       | 481        | 94       | 95        | 75-125       | 2   |      |
| Lead      | ug/L  | 47.5               | 500            | 500             | 433       | 438        | 77       | 78        | 75-125       | 1   |      |
| Selenium  | ug/L  | ND                 | 500            | 500             | 537       | 533        | 106      | 106       | 75-125       | 1   |      |
| Silver    | ug/L  | ND                 | 250            | 250             | 264       | 268        | 105      | 107       | 75-125       | 2   |      |

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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: MSV/21636  
QC Batch Method: EPA 8260  
Associated Lab Samples: 92143608001  
Analysis Method: EPA 8260  
Analysis Description: 8260 MSV

METHOD BLANK: 900084

Matrix: Water

Associated Lab Samples: 92143608001

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1,1-Trichloroethane       | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1,2-Trichloroethane       | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1-Dichloroethane          | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1-Dichloroethene          | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,1-Dichloropropene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2,3-Trichloropropane      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dichlorobenzene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dichloroethane          | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dichloroethene (Total)  | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dichloropropane         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,3-Dichlorobenzene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,3-Dichloropropane         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,4-Dichlorobenzene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 2,2-Dichloropropane         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 2-Butanone (MEK)            | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| 2-Chlorotoluene             | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 2-Hexanone                  | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| 4-Chlorotoluene             | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Acetone                     | ug/L  | ND           | 25.0            | 01/04/13 14:25 |            |
| Benzene                     | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Bromobenzene                | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Bromochloromethane          | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Bromodichloromethane        | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Bromoform                   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Bromomethane                | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Carbon tetrachloride        | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Chlorobenzene               | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Chloroethane                | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Chloroform                  | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Chloromethane               | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| cis-1,2-Dichloroethene      | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| cis-1,3-Dichloropropene     | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Dibromochloromethane        | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Dibromomethane              | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |

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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

METHOD BLANK: 900084

Matrix: Water

Associated Lab Samples: 92143608001

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Diisopropyl ether         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Ethylbenzene              | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Hexachloro-1,3-butadiene  | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Isopropylbenzene (Cumene) | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| m&p-Xylene                | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Methyl-tert-butyl ether   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Methylene Chloride        | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| n-Butylbenzene            | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| n-Propylbenzene           | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Naphthalene               | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| o-Xylene                  | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| p-Isopropyltoluene        | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| sec-Butylbenzene          | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Styrene                   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| tert-Butyl Alcohol        | ug/L  | ND           | 100             | 01/04/13 14:25 |            |
| tert-Butylbenzene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Tetrachloroethene         | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Toluene                   | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| trans-1,2-Dichloroethene  | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| trans-1,3-Dichloropropene | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Trichloroethene           | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| Trichlorofluoromethane    | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Vinyl acetate             | ug/L  | ND           | 10.0            | 01/04/13 14:25 |            |
| Vinyl chloride            | ug/L  | ND           | 5.0             | 01/04/13 14:25 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 127          | 70-130          | 01/04/13 14:25 |            |
| 4-Bromofluorobenzene (S)  | %     | 87           | 70-130          | 01/04/13 14:25 |            |
| Dibromofluoromethane (S)  | %     | 120          | 70-130          | 01/04/13 14:25 |            |
| Toluene-d8 (S)            | %     | 100          | 70-130          | 01/04/13 14:25 |            |

LABORATORY CONTROL SAMPLE: 900085

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | 50          | 53.2       | 106       | 70-130       |            |
| 1,1,1-Trichloroethane       | ug/L  | 50          | 57.0       | 114       | 70-137       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 53.8       | 108       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 51.5       | 103       | 70-137       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 52.1       | 104       | 70-138       |            |
| 1,1-Dichloropropene         | ug/L  | 50          | 51.6       | 103       | 70-130       |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 50          | 51.6       | 103       | 70-143       |            |
| 1,2,3-Trichloropropane      | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 52.3       | 105       | 70-138       |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 50          | 55.5       | 111       | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 53.1       | 106       | 68-134       |            |

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## QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

LABORATORY CONTROL SAMPLE: 900085

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 54.0       | 108       | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 53.5       | 107       | 70-133       |            |
| 1,2-Dichloroethene (Total)  | ug/L  | 100         | 101        | 101       | 70-130       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 51.4       | 103       | 70-130       |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 50          | 54.0       | 108       | 70-130       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| 1,3-Dichloropropane         | ug/L  | 50          | 49.8       | 100       | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 50.4       | 101       | 70-130       |            |
| 2,2-Dichloropropane         | ug/L  | 50          | 53.8       | 108       | 61-142       |            |
| 2-Butanone (MEK)            | ug/L  | 100         | 117        | 117       | 63-150       |            |
| 2-Chlorotoluene             | ug/L  | 50          | 50.9       | 102       | 70-130       |            |
| 2-Hexanone                  | ug/L  | 100         | 113        | 113       | 70-137       |            |
| 4-Chlorotoluene             | ug/L  | 50          | 52.3       | 105       | 70-130       |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | 100         | 116        | 116       | 70-134       |            |
| Acetone                     | ug/L  | 100         | 123        | 123       | 68-160       |            |
| Benzene                     | ug/L  | 50          | 50.2       | 100       | 70-130       |            |
| Bromobenzene                | ug/L  | 50          | 47.0       | 94        | 70-130       |            |
| Bromochloromethane          | ug/L  | 50          | 52.3       | 105       | 70-135       |            |
| Bromodichloromethane        | ug/L  | 50          | 57.2       | 114       | 70-130       |            |
| Bromoform                   | ug/L  | 50          | 49.2       | 98        | 70-130       |            |
| Bromomethane                | ug/L  | 50          | 51.7       | 103       | 63-130       |            |
| Carbon tetrachloride        | ug/L  | 50          | 59.0       | 118       | 70-146       |            |
| Chlorobenzene               | ug/L  | 50          | 52.2       | 104       | 70-130       |            |
| Chloroethane                | ug/L  | 50          | 59.6       | 119       | 60-151       |            |
| Chloroform                  | ug/L  | 50          | 52.2       | 104       | 70-130       |            |
| Chloromethane               | ug/L  | 50          | 56.4       | 113       | 65-133       |            |
| cis-1,2-Dichloroethene      | ug/L  | 50          | 49.6       | 99        | 70-134       |            |
| cis-1,3-Dichloropropene     | ug/L  | 50          | 55.8       | 112       | 70-130       |            |
| Dibromochloromethane        | ug/L  | 50          | 58.9       | 118       | 70-130       |            |
| Dibromomethane              | ug/L  | 50          | 52.9       | 106       | 70-130       |            |
| Dichlorodifluoromethane     | ug/L  | 50          | 54.4       | 109       | 66-130       |            |
| Diisopropyl ether           | ug/L  | 50          | 47.2       | 94        | 70-133       |            |
| Ethylbenzene                | ug/L  | 50          | 53.0       | 106       | 70-130       |            |
| Hexachloro-1,3-butadiene    | ug/L  | 50          | 55.3       | 111       | 58-151       |            |
| Isopropylbenzene (Cumene)   | ug/L  | 50          | 48.9       | 98        | 70-130       |            |
| m&p-Xylene                  | ug/L  | 100         | 112        | 112       | 70-130       |            |
| Methyl-tert-butyl ether     | ug/L  | 50          | 49.2       | 98        | 70-136       |            |
| Methylene Chloride          | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| n-Butylbenzene              | ug/L  | 50          | 54.5       | 109       | 70-130       |            |
| n-Propylbenzene             | ug/L  | 50          | 50.8       | 102       | 70-130       |            |
| Naphthalene                 | ug/L  | 50          | 54.2       | 108       | 70-139       |            |
| o-Xylene                    | ug/L  | 50          | 53.3       | 107       | 70-130       |            |
| p-Isopropyltoluene          | ug/L  | 50          | 58.3       | 117       | 70-130       |            |
| sec-Butylbenzene            | ug/L  | 50          | 55.3       | 111       | 70-130       |            |
| Styrene                     | ug/L  | 50          | 50.0       | 100       | 70-130       |            |
| tert-Butyl Alcohol          | ug/L  | 500         | 677        | 135       | 69-151       |            |
| tert-Butylbenzene           | ug/L  | 50          | 54.5       | 109       | 70-130       |            |

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## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

LABORATORY CONTROL SAMPLE: 900085

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Tetrachloroethene         | ug/L  | 50          | 52.3       | 105       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 52.7       | 105       | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 50.9       | 102       | 70-130       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 56.6       | 113       | 70-130       |            |
| Trichloroethene           | ug/L  | 50          | 53.4       | 107       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 52.8       | 106       | 70-130       |            |
| Vinyl acetate             | ug/L  | 100         | 118        | 118       | 67-148       |            |
| Vinyl chloride            | ug/L  | 50          | 45.3       | 91        | 67-133       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 106       | 70-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 105       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 104       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 101       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 900086

900087

| Parameter                 | 92143579003 |        | MS          | MSD         | MS   | MSD  | MS  | MSD | % Rec  | % Rec | % Rec | RPD | Qual |
|---------------------------|-------------|--------|-------------|-------------|------|------|-----|-----|--------|-------|-------|-----|------|
|                           | Units       | Result | Spike Conc. | Spike Conc. |      |      |     |     |        |       |       |     |      |
| 1,1-Dichloroethene        | ug/L        | ND     | 50          | 50          | 36.9 | 41.5 | 74  | 83  | 65-160 | 12    |       |     |      |
| Benzene                   | ug/L        | ND     | 50          | 50          | 31.7 | 31.7 | 63  | 63  | 58-162 | 0     |       |     |      |
| Chlorobenzene             | ug/L        | ND     | 50          | 50          | 39.2 | 39.6 | 78  | 79  | 70-138 | 1     |       |     |      |
| Toluene                   | ug/L        | ND     | 50          | 50          | 39.8 | 40.0 | 80  | 80  | 65-152 | 0     |       |     |      |
| Trichloroethene           | ug/L        | ND     | 50          | 50          | 37.7 | 38.2 | 75  | 76  | 70-142 | 1     |       |     |      |
| 1,2-Dichloroethane-d4 (S) | %           |        |             |             |      |      | 109 | 116 | 70-130 |       |       |     |      |
| 4-Bromofluorobenzene (S)  | %           |        |             |             |      |      | 89  | 88  | 70-130 |       |       |     |      |
| Dibromofluoromethane (S)  | %           |        |             |             |      |      | 108 | 108 | 70-130 |       |       |     |      |
| Toluene-d8 (S)            | %           |        |             |             |      |      | 94  | 95  | 70-130 |       |       |     |      |



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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: WET/23749

QC Batch Method: EPA 1010

Associated Lab Samples: 92143608001, 92143608002

Analysis Method: EPA 1010

Analysis Description: 1010 Flash Point, Closed Cup

SAMPLE DUPLICATE: 902080

| Parameter  | Units | 92143344001<br>Result | Dup<br>Result | RPD | Qualifiers |
|------------|-------|-----------------------|---------------|-----|------------|
| Flashpoint | deg F | >200                  | >200          |     |            |



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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: WET/23814  
QC Batch Method: EPA 9040  
Associated Lab Samples: 92143608001

Analysis Method: EPA 9040  
Analysis Description: 9040 pH

SAMPLE DUPLICATE: 904695

| Parameter | Units      | 92143888004<br>Result | Dup<br>Result | RPD | Qualifiers |
|-----------|------------|-----------------------|---------------|-----|------------|
| pH        | Std. Units | 7.9                   | 7.9           | 0   | H6         |

SAMPLE DUPLICATE: 904696

| Parameter | Units      | 92144671001<br>Result | Dup<br>Result | RPD | Qualifiers |
|-----------|------------|-----------------------|---------------|-----|------------|
| pH        | Std. Units | 7.8                   | 7.8           | 0   | H6         |



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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: WET/23773  
QC Batch Method: EPA 9045  
Associated Lab Samples: 92143608003  
Analysis Method: EPA 9045  
Analysis Description: 9045 pH

SAMPLE DUPLICATE: 902909

| Parameter          | Units      | 92143297001<br>Result | Dup<br>Result | RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-----|------------|
| pH at 25 Degrees C | Std. Units | 6.6                   | 6.6           | 0   |            |

SAMPLE DUPLICATE: 902910

| Parameter          | Units      | 92144270004<br>Result | Dup<br>Result | RPD | Qualifiers |
|--------------------|------------|-----------------------|---------------|-----|------------|
| pH at 25 Degrees C | Std. Units | 2.6                   | 2.7           | 3   |            |

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### QUALITY CONTROL DATA

Project: Gates Property 67386  
Pace Project No.: 92143608

QC Batch: WETA/14249  
QC Batch Method: SM 4500-CN-E  
Associated Lab Samples: 92143608001

Analysis Method: SM 4500-CN-E  
Analysis Description: 4500CNE Cyanide, Total

METHOD BLANK: 904622

Matrix: Water

Associated Lab Samples: 92143608001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Cyanide   | mg/L  | ND           | 0.0050          | 01/12/13 12:23 |            |

LABORATORY CONTROL SAMPLE: 904623

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Cyanide   | mg/L  | .1          | 0.11       | 114       | 80-120       |            |

MATRIX SPIKE SAMPLE: 904625

| Parameter | Units | 92143786001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Cyanide   | mg/L  | 0.035              | .1          | 0.11      | 78       | 75-125       |            |

SAMPLE DUPLICATE: 904624

| Parameter | Units | 92143786001 Result | Dup Result | RPD   | Qualifiers |
|-----------|-------|--------------------|------------|-------|------------|
| Cyanide   | mg/L  | 0.035              | 0.023      | 41 D6 |            |

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## QUALIFIERS

Project: Gates Property 67386  
Pace Project No.: 92143608

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.  
ND - Not Detected at or above adjusted reporting limit.  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PRL - Pace Reporting Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

## LABORATORIES

PASI-A Pace Analytical Services - Asheville  
PASI-C Pace Analytical Services - Charlotte

## ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.  
E Analyte concentration exceeded the calibration range. The reported result is estimated.  
H6 Analysis initiated outside of the 15 minute EPA recommended holding time.  
N2 The lab does not hold TNI accreditation for this parameter.  
pH Post-analysis pH measurement indicates insufficient VOA sample preservation.



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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Gates Property 67386  
Pace Project No.: 92143608

| Lab ID      | Sample ID | QC Batch Method | QC Batch   | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|------------|-------------------|------------------|
| 92143608003 | DM313234  | EPA 3010        | MPRP/12329 | EPA 6010          | ICP/11262        |
| 92143608001 | DMCOMP    | EPA 3010        | MPRP/12378 | EPA 6010          | ICP/11306        |
| 92143608003 | DM313234  | EPA 7470        | MERP/4809  | EPA 7470          | MERC/4705        |
| 92143608001 | DMCOMP    | EPA 7470        | MERP/4822  | EPA 7470          | MERC/4714        |
| 92143608001 | DMCOMP    | EPA 8260        | MSV/21636  |                   |                  |
| 92143608001 | DMCOMP    | EPA 1010        | WET/23749  |                   |                  |
| 92143608002 | DM36-38   | EPA 1010        | WET/23749  |                   |                  |
| 92143608001 | DMCOMP    | EPA 9040        | WET/23814  |                   |                  |
| 92143608003 | DM313234  | EPA 9045        | WET/23773  |                   |                  |
| 92143608002 | DM36-38   | ASTM D5468-02   | WET/23828  |                   |                  |
| 92143608001 | DMCOMP    | SM 4500-CN-E    | WETA/14249 |                   |                  |

[illegible]

| REINQUISHED BY / AFFILIATION  |  | DATE   | TIME  | ACCEPTED BY / AFFILIATION    |                              | DATE                                    | TIME                         | SAMPLE CONDITIONS                       |   |
|---|--|--------|-------|------------------------------|------------------------------|---|------------------------------|---|---|
| <i>[Signature]</i>  |  | 1-3-73 | 12:11 | <i>[Signature]</i>           |                              | 1-3-73                                  | 12:11                        |   |   |
| <i>[Signature]</i>  |  | 1-30   | 1418  | <i>[Signature]</i>           |                              | 1-3-73                                  | 1418                         | <input checked="" type="checkbox"/> Y/N | <input checked="" type="checkbox"/> Y/N |
|   |  |        |       |                              |                              |   |                              | <input checked="" type="checkbox"/> Y/N | <input checked="" type="checkbox"/> Y/N |
| <b>SAMPLE NAME AND SIGNATURE</b>                                      |  |        |       |                              |                              |   |                              |   |   |
| <b>PRINT NAME &amp; SURNOME</b>                                       |  |        |       |                              |                              |   |                              |   |   |
| <b>SIGNATURE OF SAMP. LBN.</b>  |  |        |       |                              |                              |   |                              |   |   |
| <i>M. C. R. E. M. F. O. R. G. I. N. A. T. I. O. N. A. L. I. T. Y.</i> |  |        |       |                              |                              |   |                              |   |   |
| <b>DATE signed (MM/DD/YR)</b>   |  |        |       |                              |                              |   |                              |   |   |
| <i>1-2-73</i>   |  |        |       |                              |                              |   |                              |   |   |
| <b>Temp In °C</b>   |  |        |       |                              |                              |   |                              |   |   |
| <b>Received on Ice</b>  |  |        |       | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input checked="" type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N            | <input type="checkbox"/> Y/N            |
| <b>Custody Sealed Cooler</b>  |  |        |       | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input checked="" type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N            | <input type="checkbox"/> Y/N            |
| <b>Samples Intact</b>   |  |        |       | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input checked="" type="checkbox"/> Y/N | <input type="checkbox"/> Y/N | <input type="checkbox"/> Y/N            | <input type="checkbox"/> Y/N            |